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G-LITES QUAD WASH 360
USER MANUAL

GRACE LITES CORPORATION™

1. Unpacking

Thank you for choosing G-Lites Quad Wash 360. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

G-Lites Quad Wash 360 LED Wash Moving Head is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

G-Lites Quad Wash 360 LED Wash Moving Head adopts 36PCS CREE 10W 4-in-1 LED lamps which features high brightness and stability.

Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:

- Moving head --------one **signal cable (1)**
- Omega clamp --------one **user manual (1)**
- Power cable --------one **safety chain (1)**

2. Safety Instructions

CAUTION!
Be careful with your operations. With a dangerous voltage you can Suffer a dangerous electric shock when touching wires!

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

Important:
Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

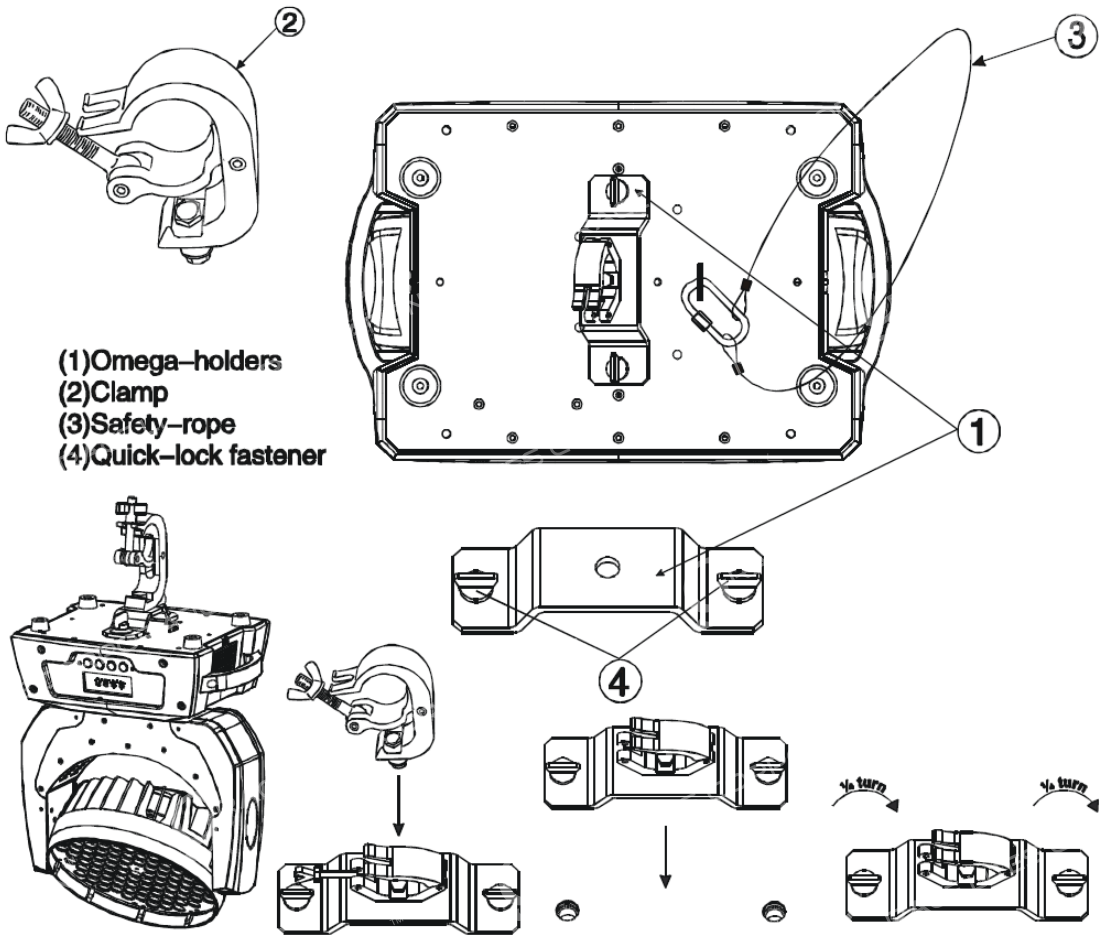
During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.
Please don't project the beam onto combustible substances.
Fixtures cannot be installed on combustible substances, keep more than 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

3. Operation Instructions

-The moving head is an LED wash light for onsite decoration purpose.
-Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
-This light should be keep away from strong shaking during any transportation or movement.
-Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
-Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
-Make sure the installation place is in good safety condition before installing the fixture.
-Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
-Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
-Make sure the fixture is operated by qualified personnel who knows the fixture before using.
-Keep the original packages if any second shipment is needed.
-Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
-It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

4. Mounting and Installation

Cautions: For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personnel.
Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.
Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
Never stand directly below the device when mounting, removing, or servicing the fixture from a ceiling, or set on a flat level surface (see illustration below).



Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points: Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material of the fixture must be applied. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

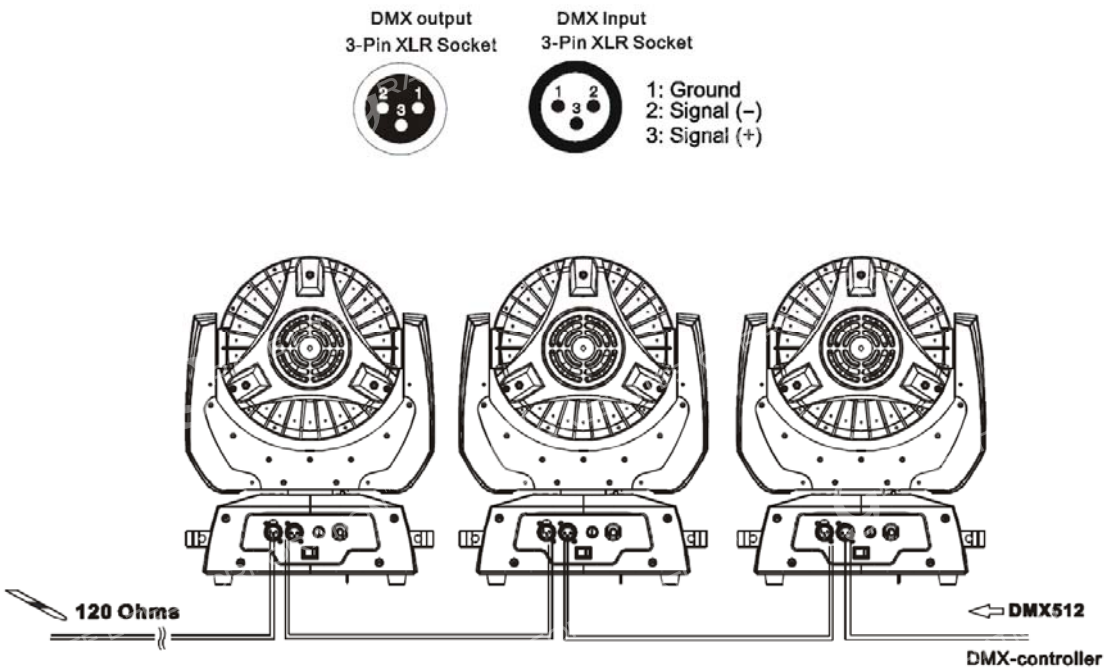
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting: G-Lites Quad Wash 360 provides a unique mounting bracket assembly that integrates the bottom of the base, the included "Omega bracket," and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attach at least one properly rated safety cable to the fixture using one of the safety cable rigging point

integrated in the base assembly. Regardless of the rigging option you choose for your G-Lites Quad Wash 360, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

5. DMX-512 control connections

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



DMX-512 connection with DMX terminator

For installation where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3,which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

6. Menu operations

Function Mode	DMX Address	A001~Axxx		
	Set to slave			
	Auto Run	Internal Program1~8		Master/Alone
	Music Control	Internal Program1~8		Master/Alone
Reset	On/Off			
Reverse Pan	On/Off			
Reverse Tilt	On/Off			
Mic sensitivity	0-99%			
Special	Reset Default	On/Off		
	Calibration	Code：088		
		PAN, TILT		
	Temperature	XXX℃/℉		
	Manual Control	PAN=XXX……		
Edit Program	Auto Program1 .. Program8	Steps(1..48) Scenes 01 .. Scenes XX	PAN=XXX… … Time=xx.xS	
Mode of channel	Mode Set	16Bit Mode 8Bit Mode Design Mode		
	Design Mode Set	Max CH= XX PAN = 001 ..		
Version	V1.0~V9.9			

7. DMX channels

Channel			Function	Value	Description
16B	8B	DE			
1	1	1	Pan	0-255	PAN Movement
2		2	Pan Fine	0-255	Fine control of Pan movement
3	2	3	Tilt	0-255	Tilt Movement
4		4	Tilt Fine	0-255	Fine control of Tilt movement
5	3	5	Shutter	0-004	No Function
				005-255	Strobe effect slow to fast
6	4	6	Dimmer	0-255	0-100% Linear dimmer
7	5	7	Red	0-255	0-100% Red dimmer from dark to bright
8	6	8	Green	0-255	0-100% Green dimmer from dark to bright
9	7	9	Blue	0-255	0-100% Blue dimmer from dark to bright
10	8	10	White	0-255	0-100% White dimmer from dark to bright
11	9	11	Speed	0-255	Max to min speed for PAN/TILT
12	10	12	Virtual Color Wheel	0	No Function
				001-003	White(2700K)
				004-006	White(3200K)
				007-009	White(4200K)
				010-012	White(5600K)
				013-015	White(8000K)
				016	Blue (Blue=full, Red+Green+White=0)
				017-051	Red=0, Green->up,Blue =full, White=0
				052	Light Blue (Red=0, Green=full, Blue =full, White=0)
				053-087	Red=0, Green=full, Blue->down, White=0
				088	Green (Red=0, Green=full, Blue =0, White=0)
				089-123	Red->up, Green=full, Blue=0, White=0
				124	Yellow (Red=full, Green=full, Blue=0, White=0)
				125-159	Red=full, Green->down, Blue=0, White=0
				160	Red(Red=full, Green=0, Blue=0, White=0)
				161-195	Red=full, Green=0, Blue->up, White=0

				196	Magenta (Red=full, Green=0, Blue=full, White=0)
				197-231	Red -> down, Green=0, Blue=full, White=0
				232-255	Rainbow effect from slow to fast
13	11	13	Color Fading	0-255	Color fading effect
14	12	14	Special	0-019	No Function
				020-029	No Function
				030-039	No Function
				040-079	No Function
				080-099	Motor reset
				100-119	Internal program 1
				120-139	Internal program 2
				140-159	Internal program 3
				160-179	Internal program 4
				180-199	Internal program 5
				200-219	Internal program 6
				220-239	Internal program 7
				240-255	Internal program 8
15		15	Red	0-255	Red in A section
16		16	Green	0-255	Green in A section
17		17	Blue	0-255	Blue in A section
18		18	White	0-255	White in A section
19		19	Red	0-255	Red in B section
20		20	Green	0-255	Green in B section
21		21	Blue	0-255	Blue in B section
22		22	White	0-255	White in B section
23		23	Red	0-255	Red in C section
24		24	Green	0-255	Green in C section
25		25	Blue	0-255	Blue in C section
26		26	White	0-255	White in C section

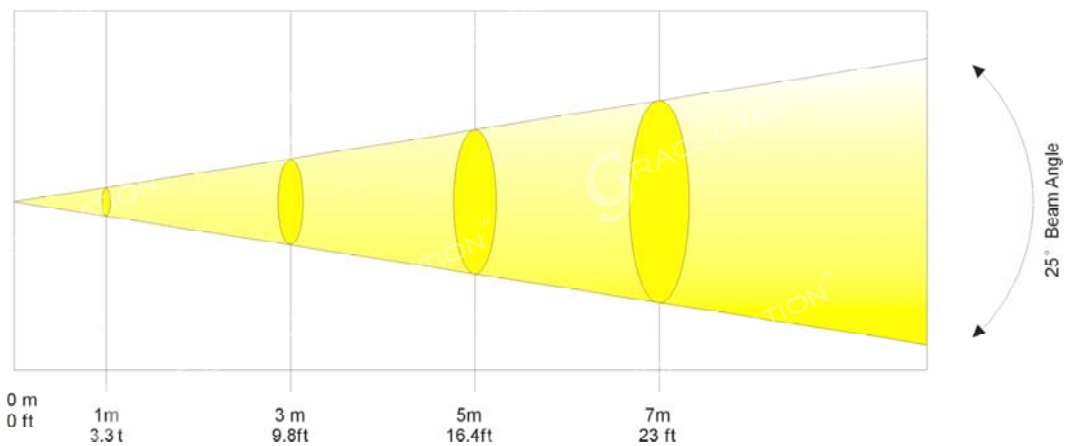
27		27	Red	0-255	Red in D section
28		28	Green	0-255	Green in D section
29		29	Blue	0-255	Blue in D section
30		30	White	0-255	White in D section
31		31	Red	0-255	Red in E section
32		32	Green	0-255	Green in E section
33		33	Blue	0-255	Blue in E section
34		34	White	0-255	White in E section
35		35	Red	0-255	Red in F section
36		36	Green	0-255	Green in F section
37		37	Blue	0-255	Blue in F section
38		38	White	0-255	White in F section

8. Photometric data

Photometric Beam Angle Data

25° Beam Angle LUX × 0.0929=FC

R	1068FC / 11500 LUX	79FC / 850LUX	34FC / 365LUX	19FC / 195LUX
G	1468FC / 15800 LUX	210FC / 2260LUX	85FC / 910LUX	46FC / 490LUX
B	1970FC / 21200 LUX	5FC / 54LUX	2FC / 22LUX	1FC / 12LUX
W	2063FC / 22200 LUX	234FC / 2520LUX	99FC / 1060LUX	53FC / 570LUX
RGBW	5249FC / 56500LUX	418FC / 4500LUX	174FC / 1870LUX	101FC / 1080LUX



9. Features

36PCS 10W high power CREE Quad Color LEDs
Specific optic system
50,000 hours lifespan and low power consumption
Smooth and precise resolution for PAN/TILT movement
540°/630° pan and 265° tilt movement
Scan position memory, auto reposition after unexpected movement
RGBW color mixing system
Color temperature adjustable for white
LED shutter
LED dimming
LED rainbow effect
Macros effect
Strobe effect with 18 flashes per second and pulse effect
General dimming and blackout for all four colors
38 DMX channels
DMX512, master-slave and sound activated controllable or auto operation
Blue background LCD display

10. Technical specifications

Input voltage: AC90-260V 50-60Hz
LED quantities: 36PCS 10W CREE Quad LEDs
Control signal: DMX512, master-slave and sound activated or auto operation
Control channel: 38 DMX channels
Power consumption: 420W
Dimensions: 350x260x350mm
Packing dimensions: 430x300x400mm
Net weight: 10.5 Kg.
Gross weight: 11.5 Kg.

11. Maintenance and Cleaning

The following points have to be considered during the inspection:

1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
4) The electric power supply cables must not show any damage, material fatigue or sediments.
Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

CAUTION!
Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
2) Clean the fan each week.
3) A detailed electric check by approved electrical engineer each three months, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.
We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth. Never use alcohol or solvents.
There are no serviceable parts inside the device. Please refer to the instructions under "Installation instructions".
Should you need any spare parts, please order genuine parts from your local dealer.